

## Appendix B



*Roseate tern*  
USFWS photo

# Species and Habitats of Management Concern

- Bird Species
- Rare Botanical Species
- Rare Plant Community Types

### Bird Species

Species	E&T Species ME / USFWS <sup>1</sup>	Migratory Nongame Species of Manage- ment Concern <sup>2</sup>	>20% of popula- tion in north- east <sup>3</sup>	Interna- tional Shorebird Survey Report <sup>4</sup>	Water- fowl Popula- tion Status Report <sup>5</sup>	Maine Special Concern <sup>6</sup>	Species of Conser- vation Concern to North- east <sup>7</sup>	Partners In Flight <sup>8</sup>	Important Neo- tropical Migratory Bird species in Maine <sup>9</sup>	Species of Manage- ment Concern on Refuge Complex lands <sup>10</sup>
Common Loon		x								
Pied-billed Grebe							x			
Leach's Storm Petrel •						x				x
Great Cormorant •						x				x
American Bittern •		x					x			
Least Bittern		x				x				
Black Crown Night Heron•						x				x
Canada Goose					x					
American Black Duck •					x			x		x
Northern Pintail					x					
Greater Scaup					x					
Lesser Scaup					x					
Harlequin Duck	x						x			
Surf Scoter					x					
Black Scoter					x					
White wing Scoter					x					
Barrow's Goldeneye					x	x				
Bald Eagle •	x									x
Golden Eagle	x						x			
Northern Harrier •		x					x			
Cooper's Hawk						x				

## Bird Species (Cont'd.)

Species	E&T Species ME / USFWS <sup>1</sup>	Migratory Nongame Species of Manage- ment Concern <sup>2</sup>	>20% of popula- tion in north- east <sup>3</sup>	Interna- tional Shorebird Survey Report <sup>4</sup>	Water- fowl Popula- tion Status Report <sup>5</sup>	Maine Special Concern <sup>6</sup>	Species of Conser- vation Concern to North- east <sup>7</sup>	Partners In Flight <sup>8</sup>	Important Neo- tropical Migratory Bird species in Maine <sup>9</sup>	Species of Manage- ment Concern on Refuge Complex lands <sup>10</sup>
Northern Goshawk •		x				x				
Red- shouldered Hawk		x								
Peregrine Falcon	x									
Spruce Grouse•								x		
American Coot						x				
Blk Bellied Plover				x						
Piping Plover	x							x		
Killdeer •				x						
Upland Sandpiper	x	x					x			x
Red Knot				x			x			
Sanderling				x						
Semipalmated Sandpiper				x						
Least Sandpiper				x						
Purple Sandpiper				x						
Short-billed Dowitcher				x						
Common Snipe				x						
American Woodcock •				x				x		x
Red-necked Phalarope						x				
Laughing Gull •						x				x
Roseate Tern •	x									x
Common Tern•		x				x	x			x
Arctic Tern •	x									x

**Bird Species (Cont'd.)**

Species	E&T Species ME / USFWS <sup>1</sup>	Migratory Nongame Species of Management Concern <sup>2</sup>	>20% of population in north-east <sup>3</sup>	International Shorebird Survey Report <sup>4</sup>	Water-fowl Population Status Report <sup>5</sup>	Maine Special Concern <sup>6</sup>	Species of Conservation Concern to North-east <sup>7</sup>	Partners In Flight <sup>8</sup>	Important Neotropical Migratory Bird species in Maine <sup>9</sup>	Species of Management Concern on Refuge Complex lands <sup>10</sup>
Least Tern	x						x			
Black Tern	x	x					x			
Atlantic Puffin •	x									x
Razorbill •	x									x
Short-eared Owl		x				x	x			
Whip-poor-will•			x				x			
Red-headed Woodpecker		x								
Yellow-bellied Sapsucker									x	
Northern Flicker •		x								
Olive-sided Flycatcher •		x				x		x		
Eastern Wood-Pewee •			x							
Eastern Phoebe •			x							
Yellow-bellied Sapsucker									x	
Loggerhead Shrike						x	x			
Yellow-throated Vireo			x							
Veery		x	x					x	x	
Wood Thrush		x	x					x		
Gray Catbird •			x							
American Pipit	x									
Blue-winged Warbler		x	x							
Northern Parula •			x						x	
Chestnut-sided Warbler •		x						x	x	

## Bird Species (Cont'd.)

Species	E&T Species ME / USFWS <sup>1</sup>	Migratory Nongame Species of Management Concern <sup>2</sup>	>20% of population in north-east <sup>3</sup>	International Shorebird Survey Report <sup>4</sup>	Waterfowl Population Status Report <sup>5</sup>	Maine Special Concern <sup>6</sup>	Species of Conservation Concern to North-east <sup>7</sup>	Partners In Flight <sup>8</sup>	Important Neotropical Migratory Bird species in Maine <sup>9</sup>	Species of Management Concern on Refuge Complex lands <sup>10</sup>
Cape May Warbler •								x		
Blk-throated Blue Warbler			x					x	x	
Blackburnian Warbler •			x					x	x	
Bay-breasted Warbler •								x		
Blk and Wht Warbler •									x	
American Redstart •									x	
Worm eating Warbler		x	x							
Ovenbird •									x	
Canada Warbler •							x	x	x	
Scarlet Tanager			x							
Field Sparrow		x								
Vesper Sparrow						x				
Grasshopper Sparrow	x	x								
Sharp-tailed Sparrow •							x	x		
Rose-breasted Grosbeak									x	
Bobolink •		x								x
Eastern Meadowlark		x				x				x
Rusty Blackbird						x				
Orchard Oriole						x				
Red Crossbill								x		
Herring Gull •										x

### Bird Species (Cont'd.)

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Blk Backed Gull •										x
Great Horned Owl •										x
Double Crested Cormorant •										x
Common Eider •										x
Black Guillemot •										x
Gray Seal										x

•Birds known to nest on the Refuge

#### References for bird list

1. USFWS Endangered and Threatened Wildlife and Plants, 50 CFR 17.11 and 17.12, December 31, 1999.
2. MDIFW Revised List of Special Concern Species in Maine, Sept. 25, 1996.
3. Wildlife Species of Regional Conservation Concern in the Northeastern United States, Northeast Wildlife Vol.54, 1999.
4. Changes to Maine's List of Endangered or Threatened Species, July 17, 1996.
5. Importance of Geographic Areas to Neotropical Migrant Birds in the Northeast, USFWS Report by Kenneth Rosenburg and Jeffrey V. Wells. July 1995.
6. Partners in Flight Priority Bird Populations and Habitats, Physiographic Areas 27 and 28(Northern New England and Eastern Spruce-Hardwood Forest).
7. Migratory Nongame Birds of Management Concern in the United States, OMB, USFWS, September, 1995.
8. 1995 International Shorebird Survey Report; (subset of species which have been declining and occur in Region 5)
9. 1996 Waterfowl Population Status Report, USFWS.
10. These are the species from the first 9 columns for which management objectives have been written; or for which we are monitoring their populations in case future management is warranted

## Rare Botanical Species

Common Name	Scientific Name	State Rarity Rank	Global Rarity Rank	State Legal Status
Northern yarrow	<i>Achillea millefolium</i> var. <i>borealis</i>	S1	G5T?	Special concern
Nova Scotia false-foxglove	<i>Agalinis neoscotica</i>	S1	G2?	Threatened
Moonwort	<i>Botrychium lunaria</i>	S1	G5	Endangered
Pickering's reed bent-grass	<i>Calamagrostis pickeringii</i>	S1	G4	Threatened
Swarthy sedge	<i>Carex adusta</i>	S1	G5	Endangered
Livid sedge	<i>Carex livida</i>	S2	G5T5	Threatened
Loose-flowered sedge <sup>A</sup>	<i>Carex rariflora</i>	SH	G5	Possibly Extirpated
Salt-marsh sedge	<i>Carex recta</i>	S1	G4	Threatened
Sea-beach sedge	<i>Carex silicea</i>	S3	G5	Special concern
Coast-blite goosefoot	<i>Chenopodium rubrum</i>	S1	G5	Threatened
Common mare's tail <sup>A</sup>	<i>Hippuris vulgaris</i>	S2	G5	Special concern
Marsh felwort	<i>Lomatogonium rotatum</i>	S2	G5	Threatened
White adder's-mouth	<i>Malaxis monophyllos</i>	S1	G4Q	Endangered
Blinks	<i>Montia fontana</i>	S2	G5	Special concern
Bird's-eye primrose	<i>Primula laurentia</i>	S2	G5	Special concern

<sup>A</sup>: Both *Carex rariflora* and *Hippuris vulgaris* have historically been documented on Petit Manan Point, but recent surveys were not able to confirm their presence.

**Rare Plant Community Types**

Community Type	Maine Natural Areas Program Element Occurrence Rank	Reason for rarity??or definition of ranking?? other state status??
Maritime Slope Bog	A	
Coastal Plateau Bog	AB	
Jack Pine Woodland	??	
Dwarf Shrub Bog	??	

**References for botanical list:**

Elements of Natural Diversity: Rare, Threatened and Endangered Plants, Maine Natural Areas Program 1999  
 An Ecological Assessment of Eastern Brothers and Halifax Island, Washington County Maine, Famous and Spencer-Famous 1999  
 South Libby Island Botanical Survey, Bochan and DiGirolamo 1999  
 Maine Forest Biodiversity Project Final Report, Maine Natural Areas Program, 1998  
 The Vascular Flora of Petit Manan Refuge John's Island, Maine, Mittelhauser and Morrison, 2000

State Ranking: (determined by Maine Natural Areas Program)

- S1: Critically imperiled in Maine because of extreme rarity or vulnerability to extirpation
- S2: Imperiled in Maine because of rarity (6 - 20 occurrences) or because of other factors making it vulnerable to further decline
- S3: Rare in Maine (20 - 100 occurrences)
- SH: Occurred historically in Maine

Special concern: Rare in Maine based on available information, but not sufficiently rare to be considered threatened or endangered

Global Ranking: (determined by The Nature Conservancy)

- G2?: Globally imperiled because of rarity (6 -20 occurrences) or because of other factors making it vulnerable to further decline (uncertain)
- G4: Apparently secure globally, but with cause for long-term concern.
- G5: Demonstrably widespread, abundant, and secure globally
- T: Indicates subspecies rank
- Q: Indicates questionable rank